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ttorney Docket No. 9400-63

oplication Serial No.: 10/756,784

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

n Huslak et al.

Examiner: Unknown Group Art Unit: 2643

Filed: January 13, 2004

Confirmation No.: 2875

For: VIDEOCONFERENCING USING MANAGED QUALITY OF SERVICE AND/OR BANDWIDTH ALLOCATION IN A REGIONAL/ACCESS NETWORK

(RAN)

Date: June 4, 2004

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

SUBMITTAL OF FORMAL DRAWINGS

Sir:

There is enclosed herewith one set (37 sheets) of new formal drawings. It is requested that these new drawings be substituted for the originally filed informal drawings.

If any extension of time for the accompanying response or submission is required, Applicant requests that this be considered a petition therefor. The Commissioner is hereby authorized to charge any additional fee, which may be required, or credit any refund, to our Deposit Account No. 50-0220.

Respectfully submitted

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CERTIFICATE OF MAILING UNDER 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on June 4, 2004.

Carey Grego



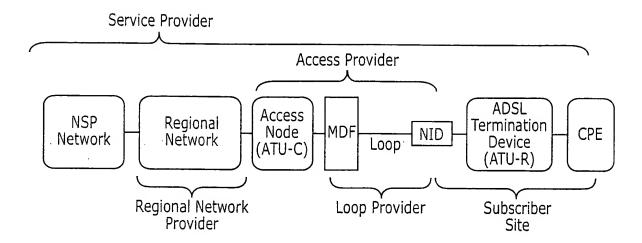


FIGURE 1 (PRIOR ART)

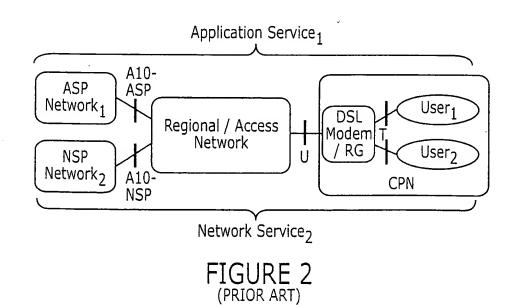
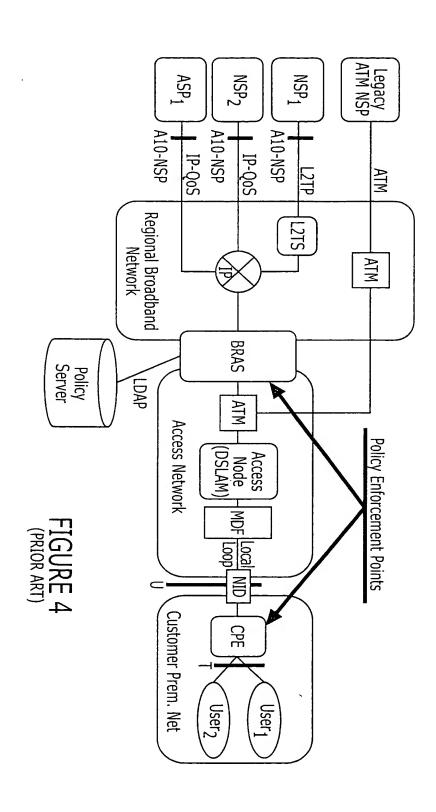
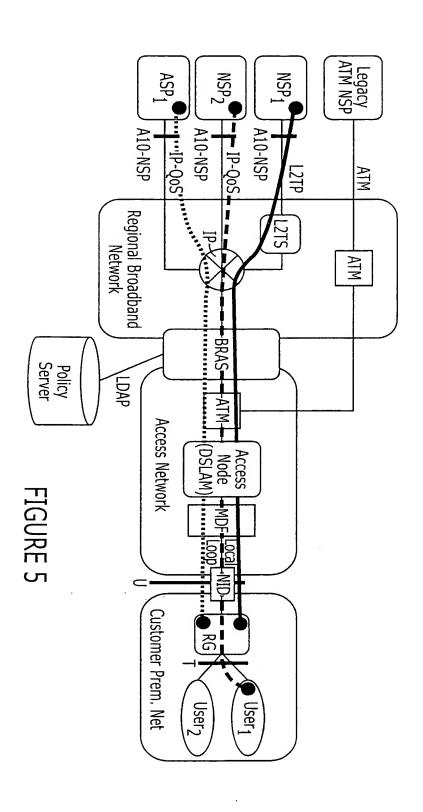


FIGURE 3 (PRIOR ART)





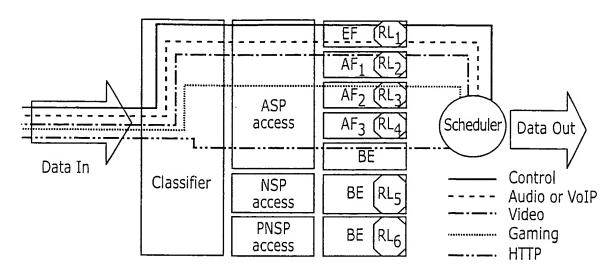


FIGURE 6

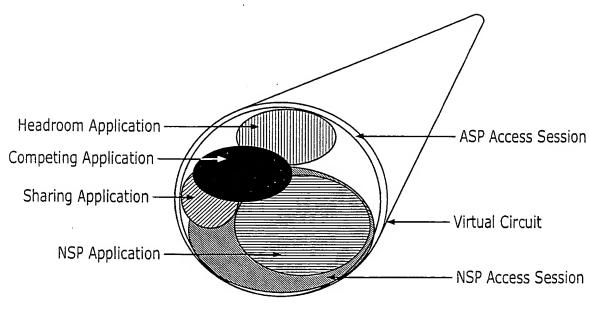
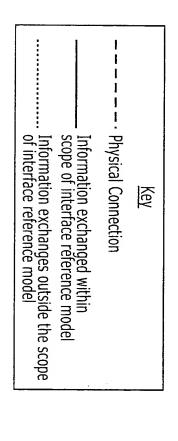
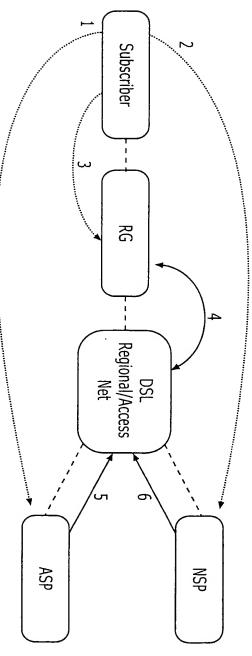


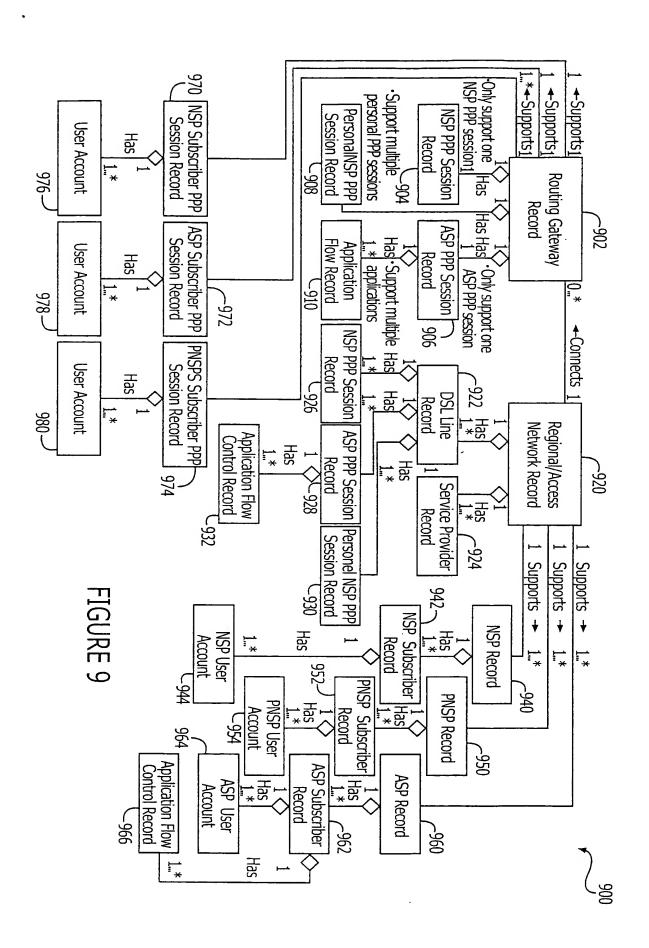
FIGURE 7





- 1,2: The subscriber exchanges information with the A/NSP when signing up for a service 3: The subscriber configures the RG. This may only be for the initial install. The ACS located within the Regional/Access Network may handle all subsequent conf changes
- The RG initiates access sessions that are terminated in the DSL network. The ACS communicates with the RG for the configuration updates.
- 5,6: The NSP communicates with the DSL network to establish a DSL connection. The ASP and NSP also communicate bandwith and QoS changes per session or application.

FIGURE 8



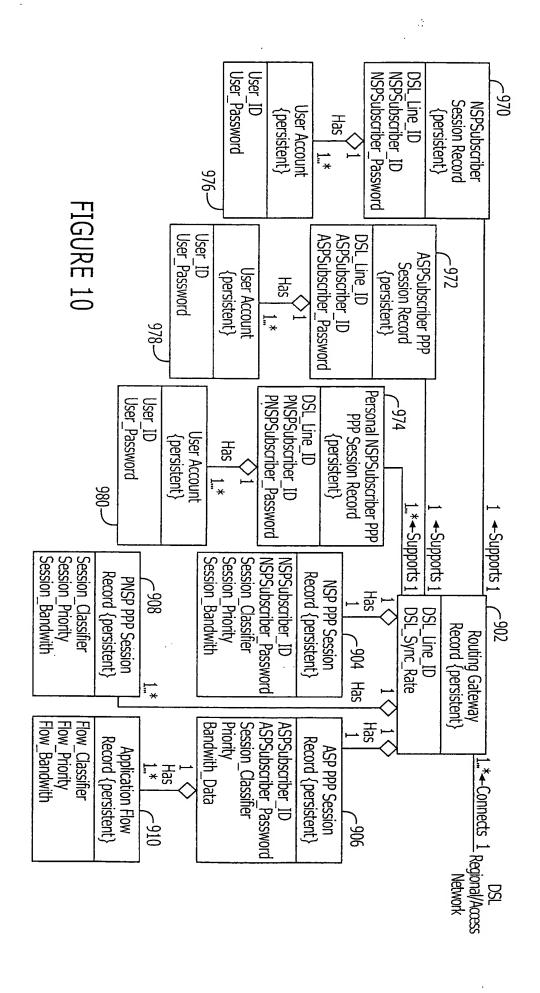


FIGURE 11A

FIGURE 11B

FIGURE 11

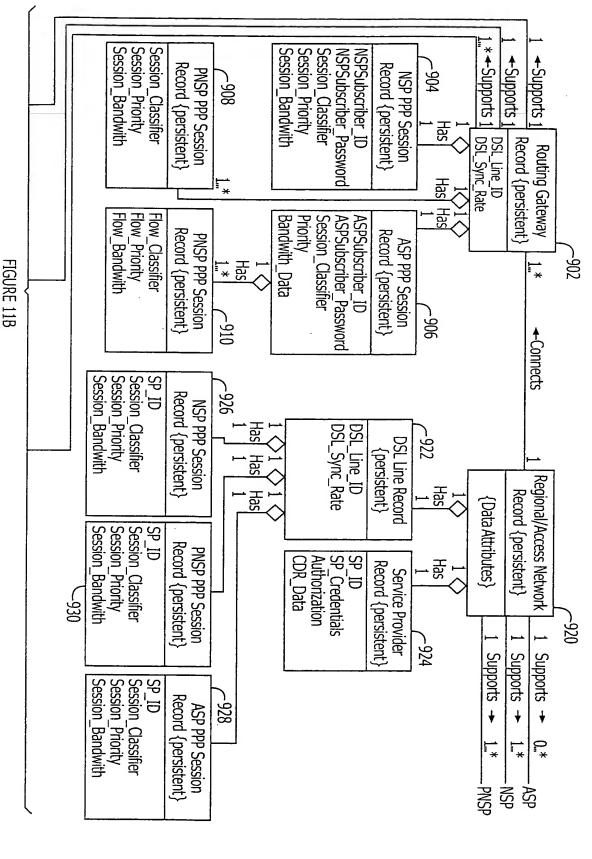


FIGURE 11A

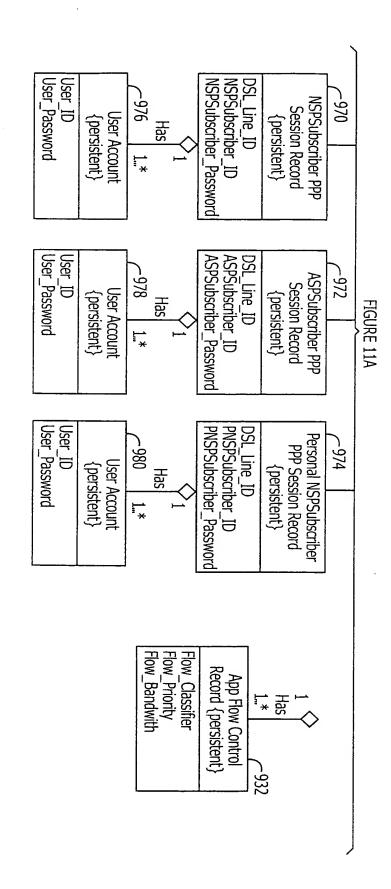
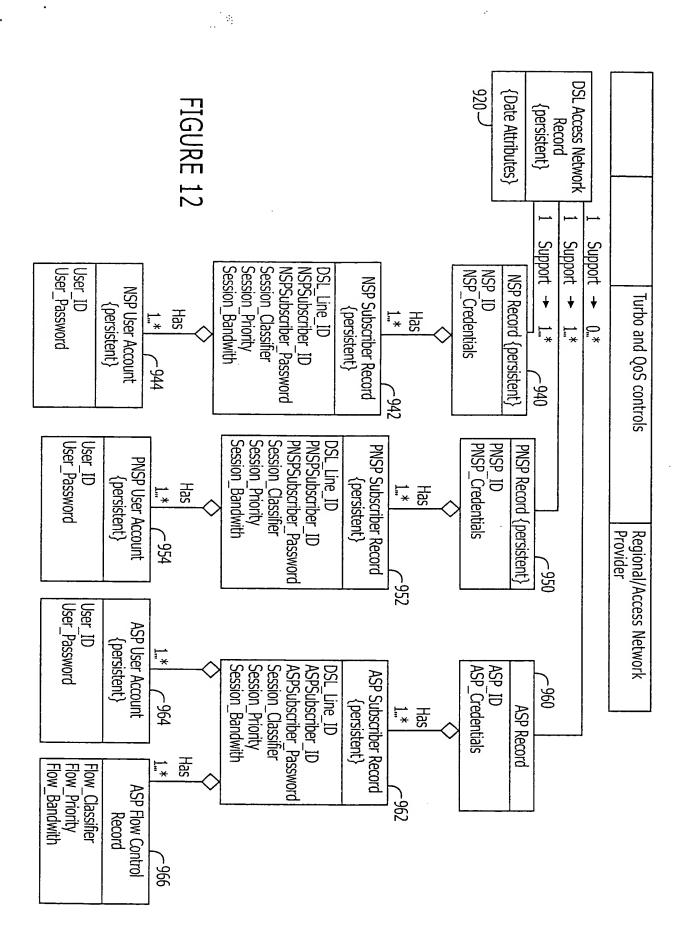


FIGURE 11B



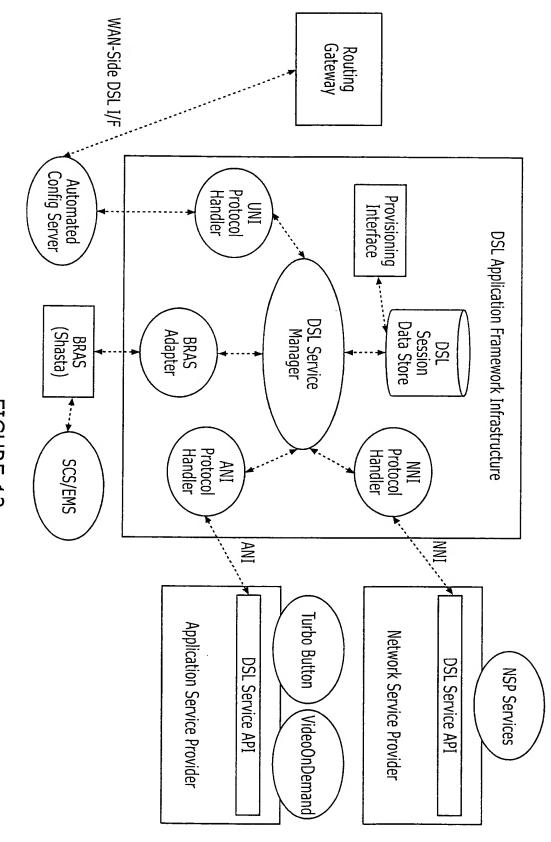
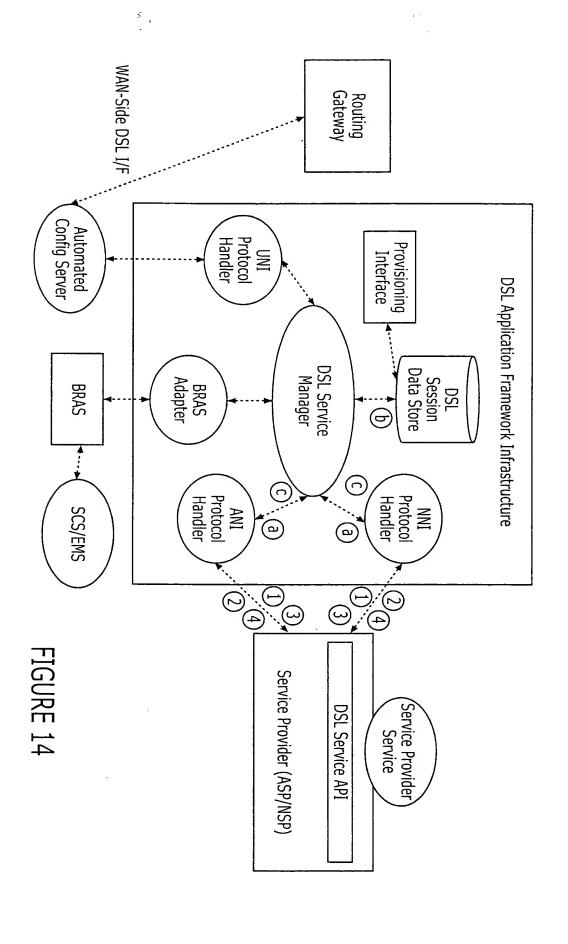
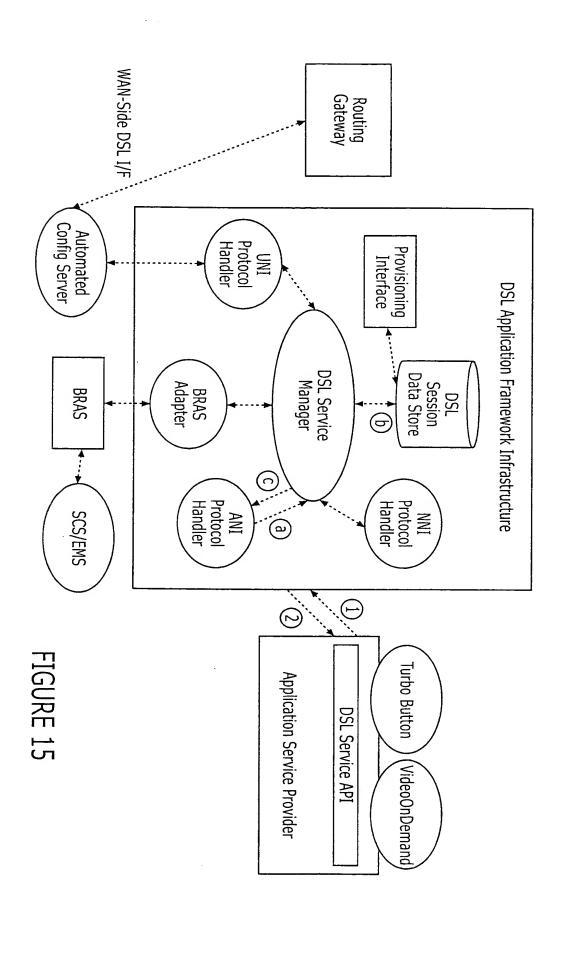
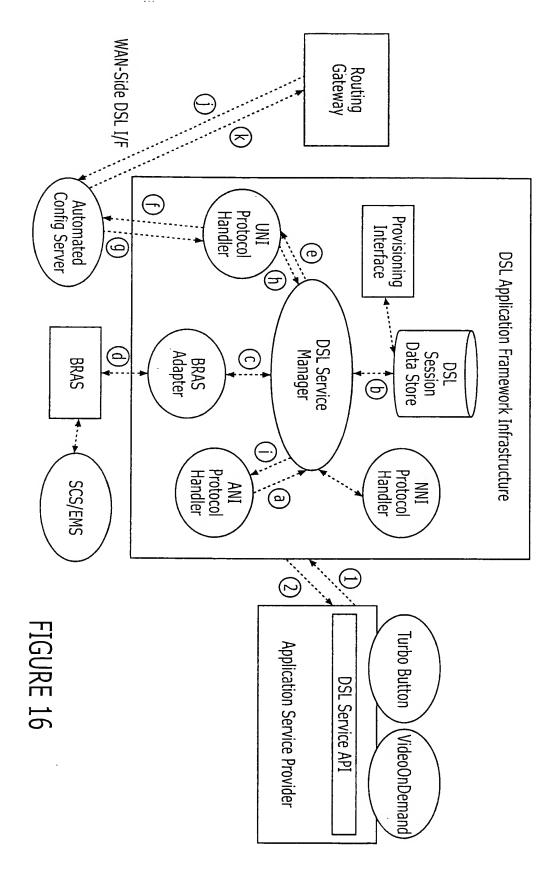
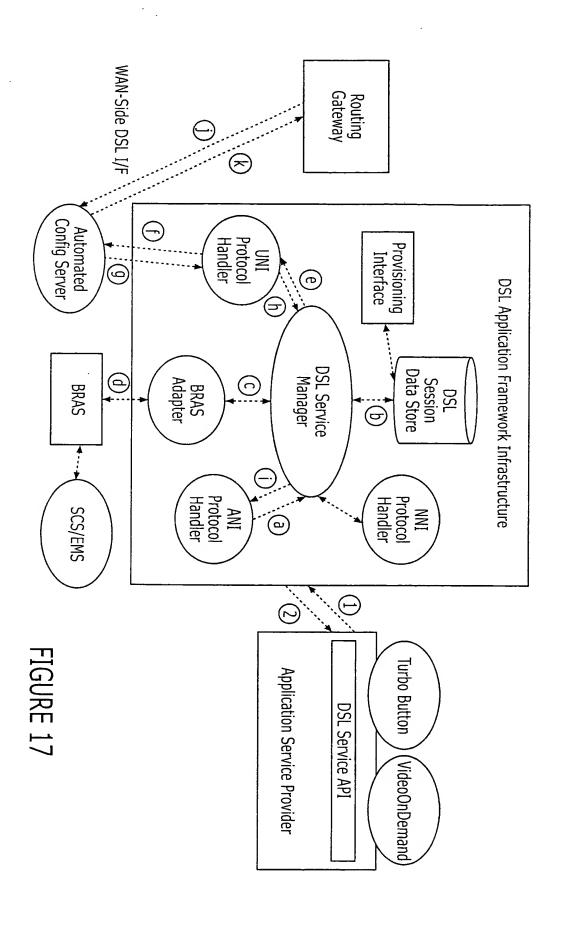


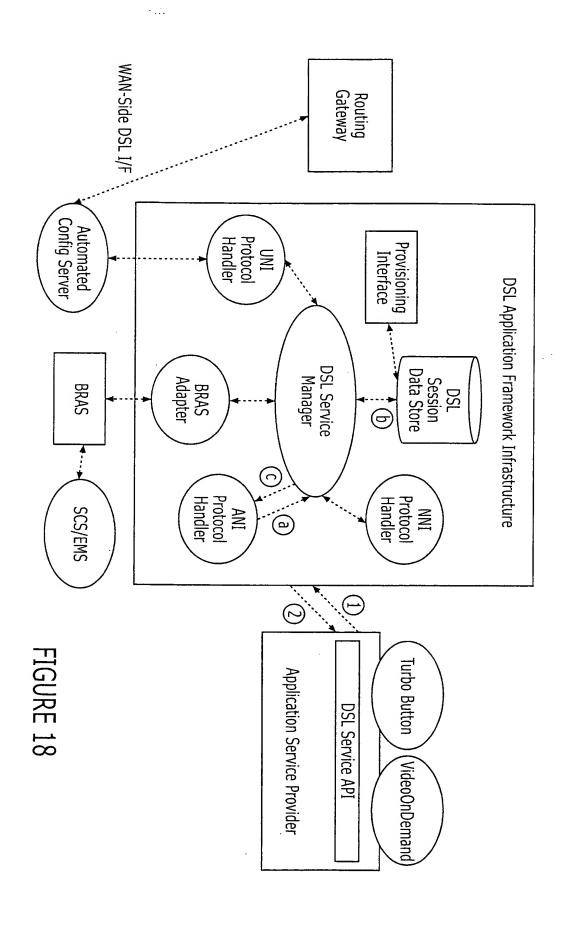
FIGURE 13

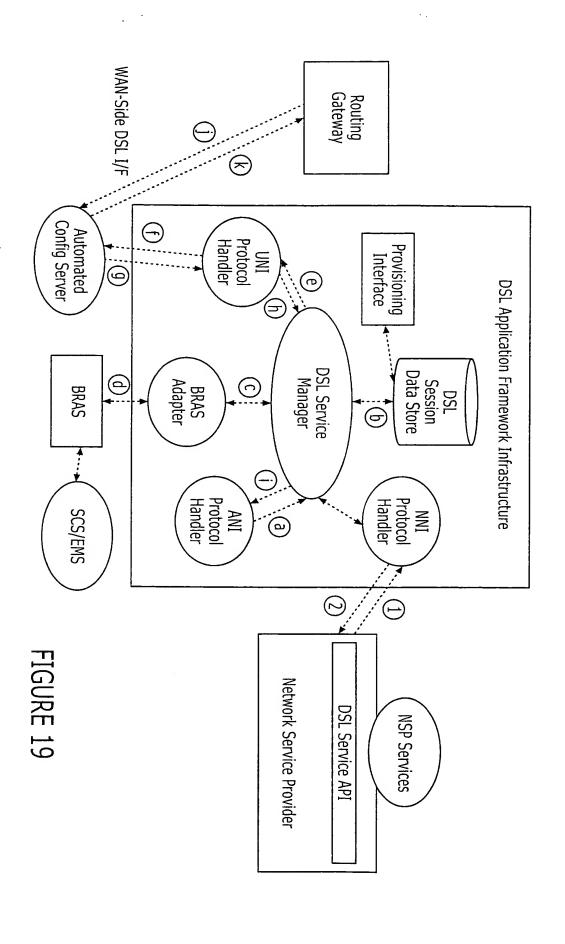


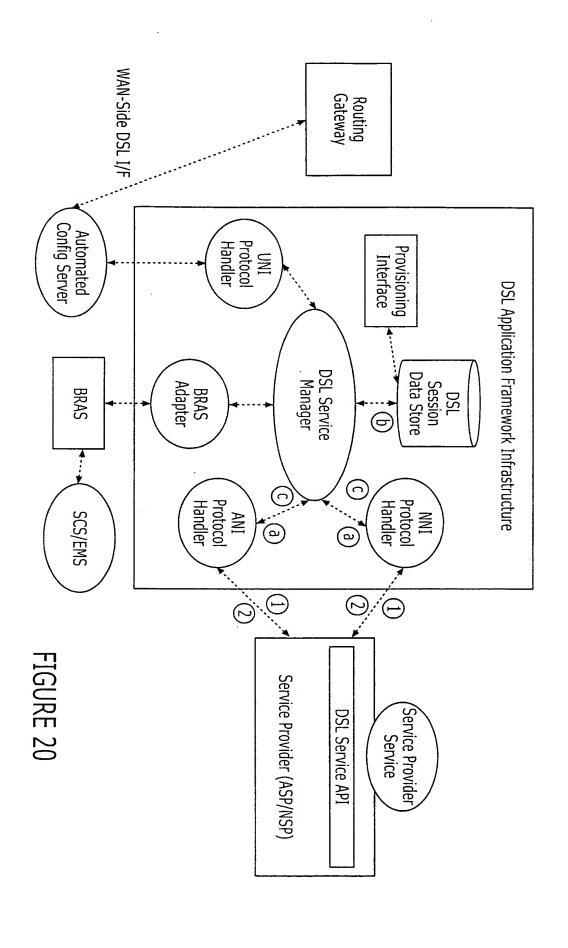












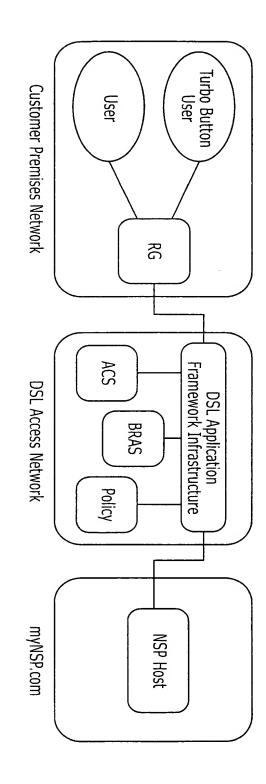
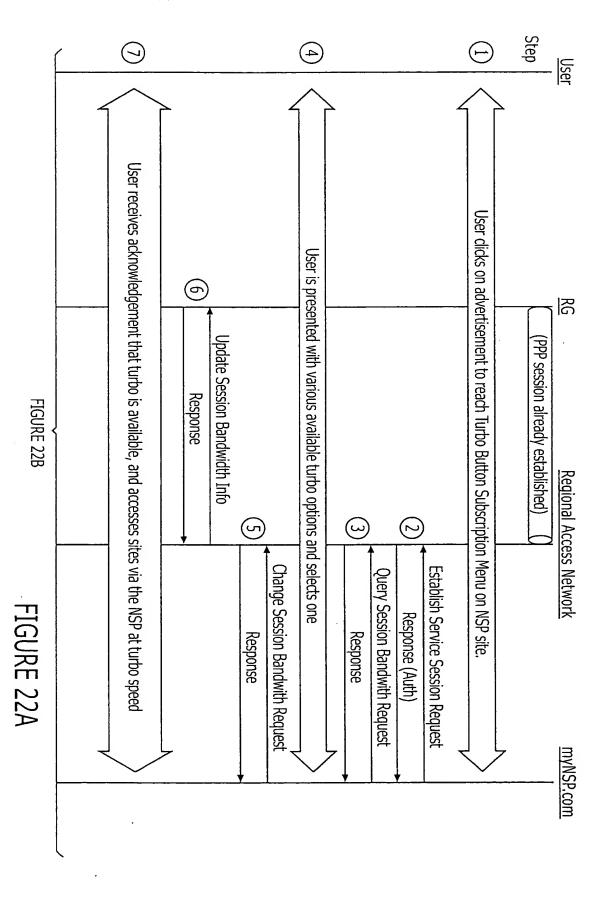


FIGURE 21

FIGURE 22A FIGURE 22B

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FIGURE 22



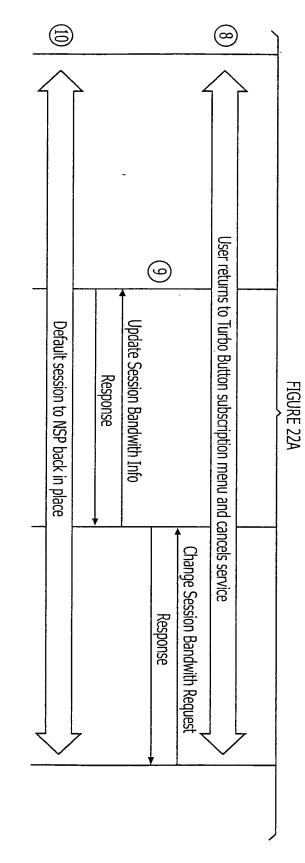
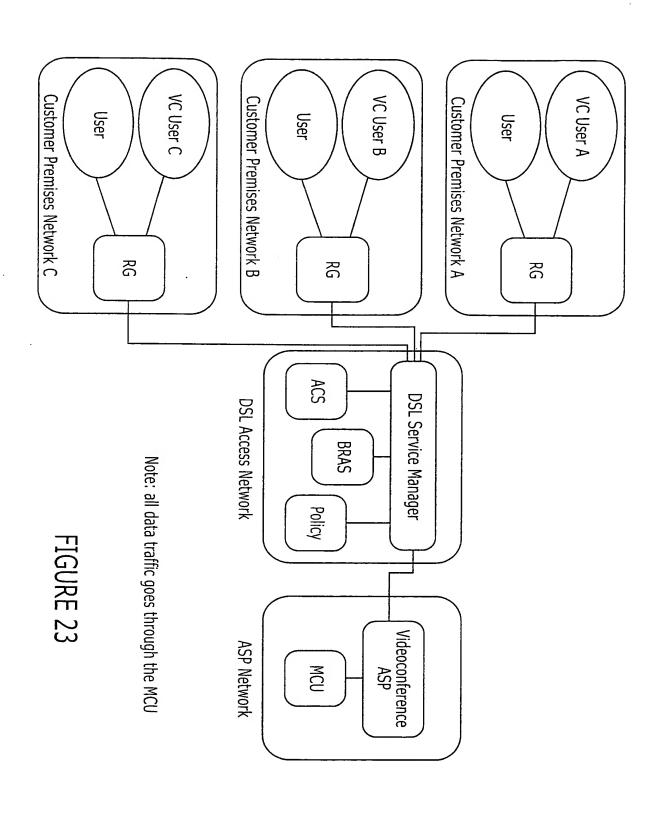
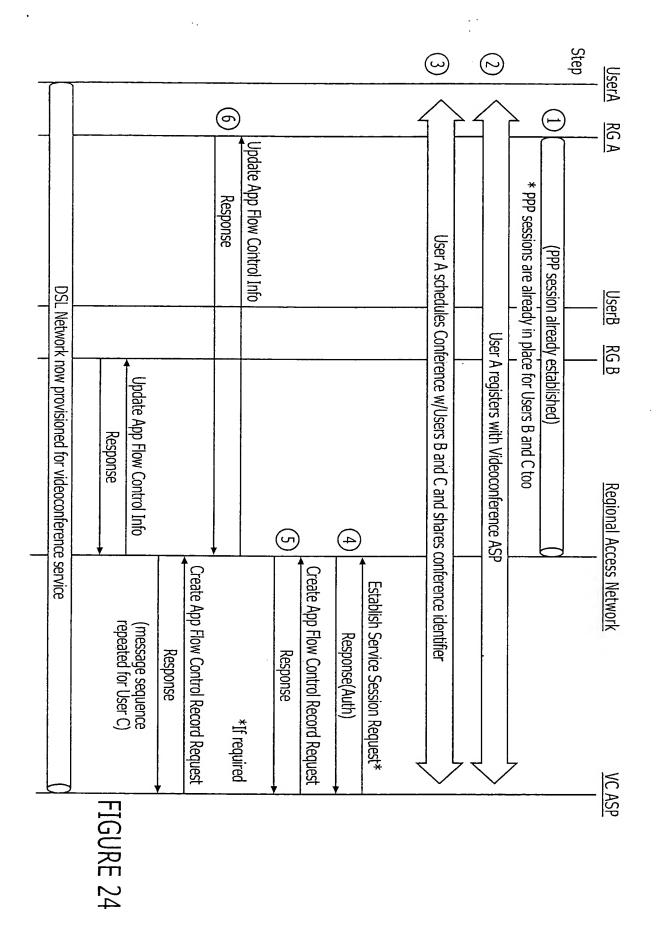
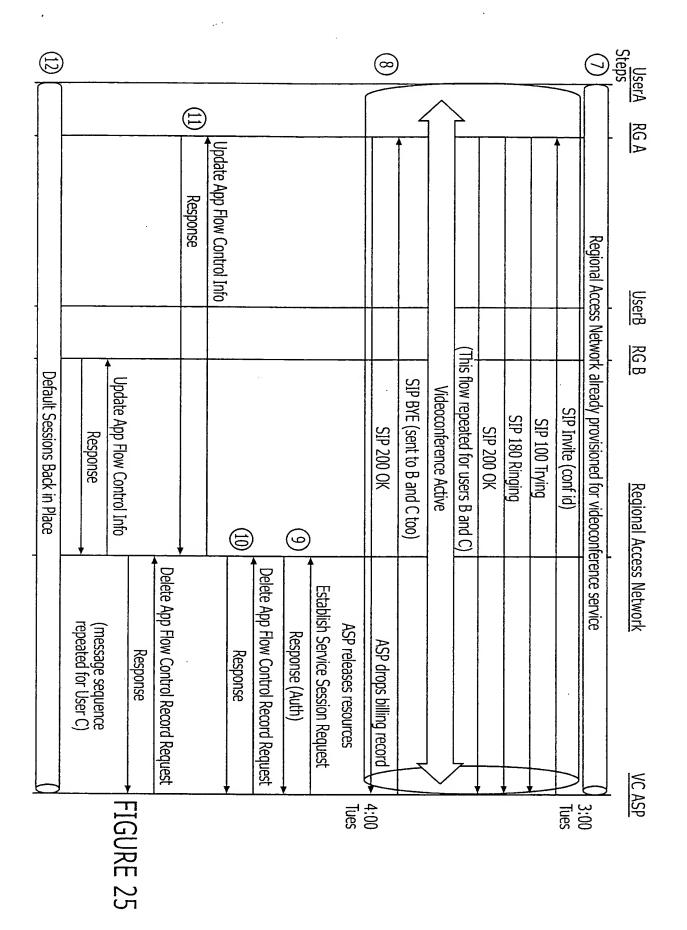


FIGURE 22B







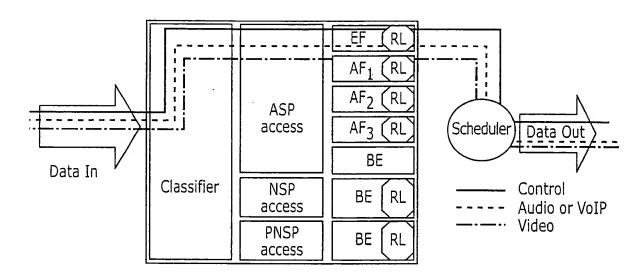
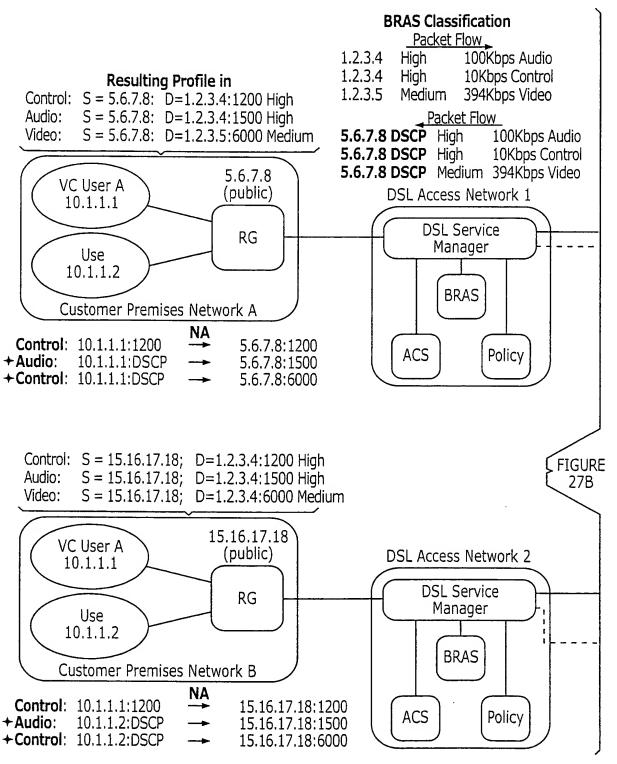


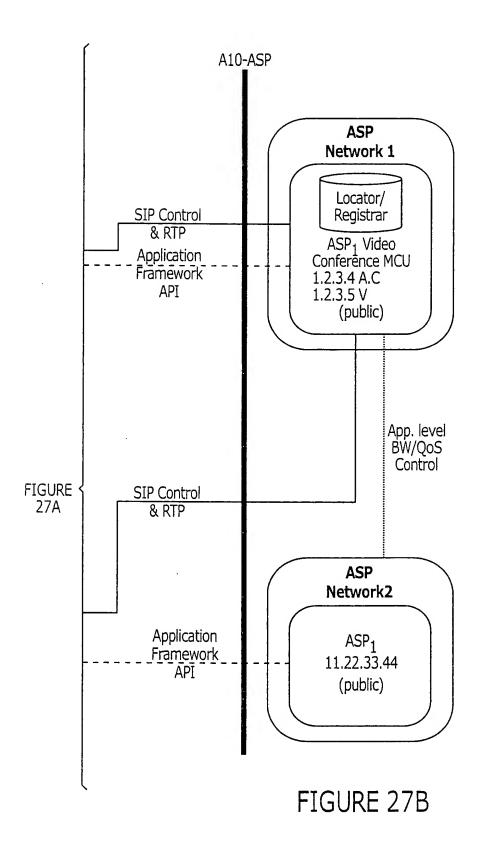
FIGURE 26



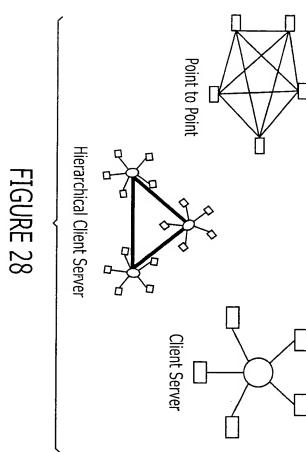
FIGURE 27

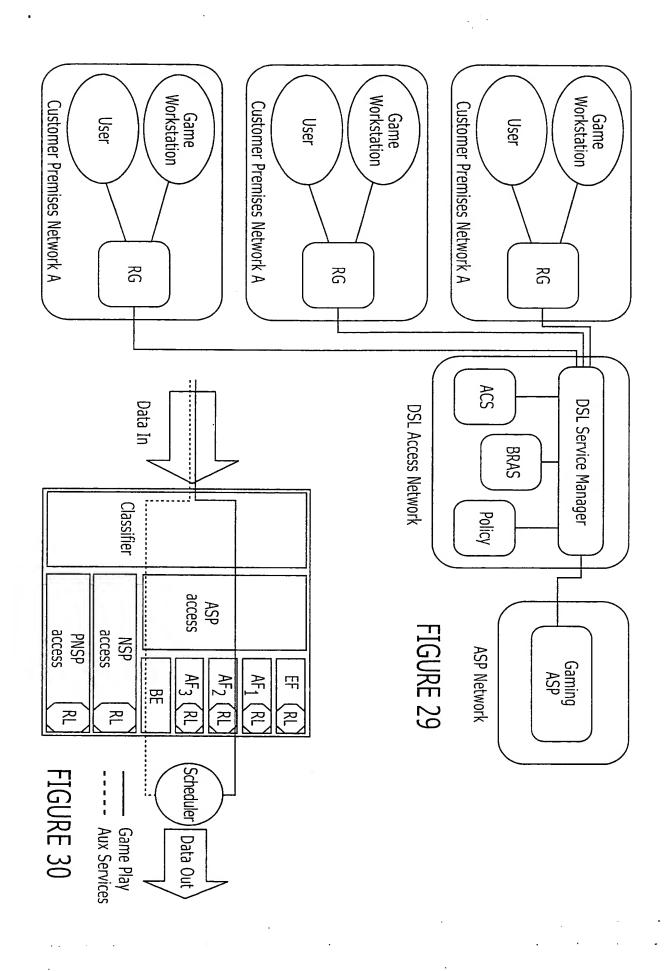


→ These flows are set up dynamically at the VC client and the DSCP are assigned for the audio and the video streams. The ALG/NAT maps the 10.X.X.X ports to the corresponding IP address and ports for audio and video specified in the ACS profile based on the DSCP set by the VC client. This ensures that the RG, BRAS, and ASP videoconference MCU maintain consistent port information with regard to the various flows.
FIGURE 27A



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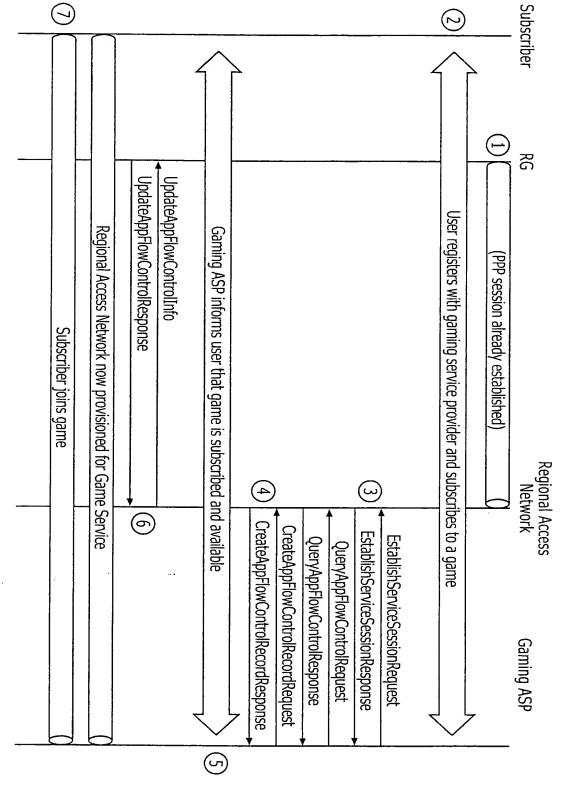
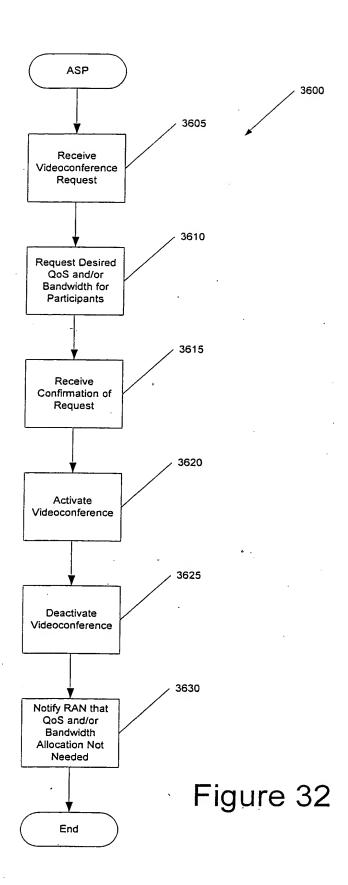
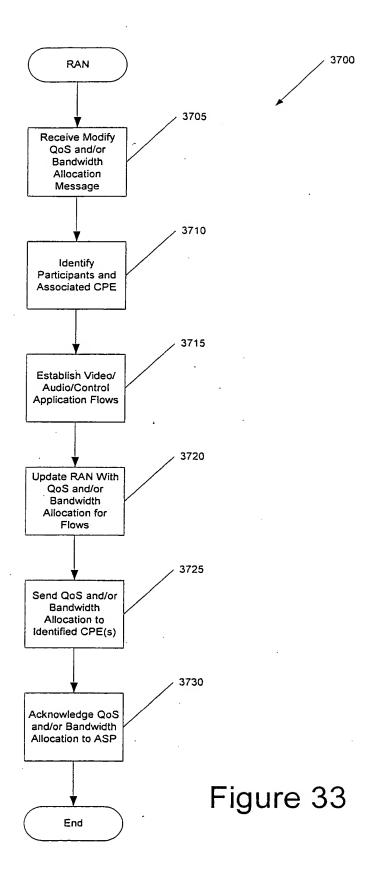


FIGURE 31





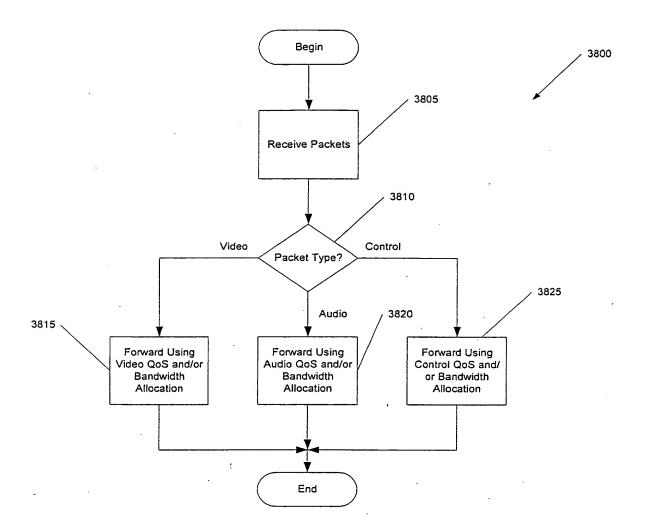
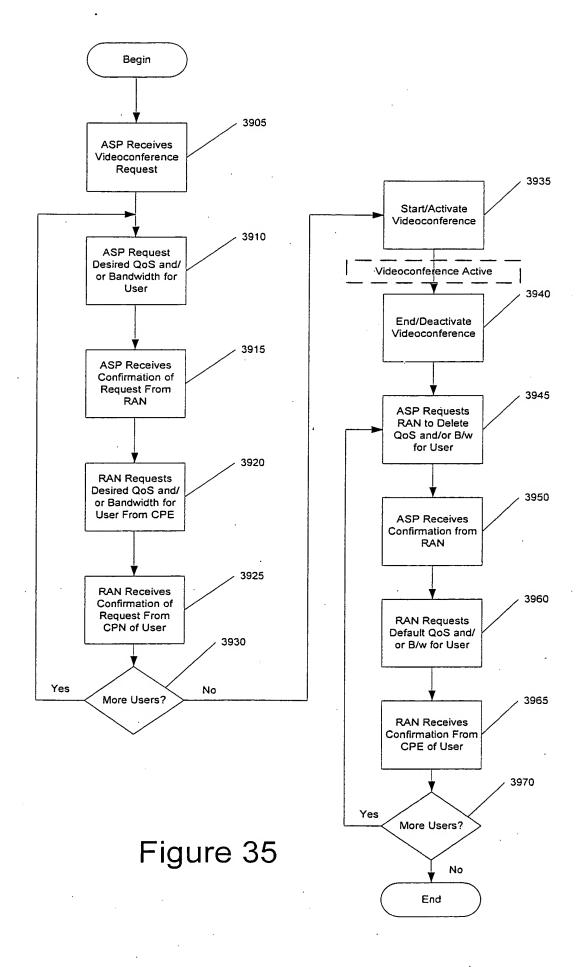


Figure 34



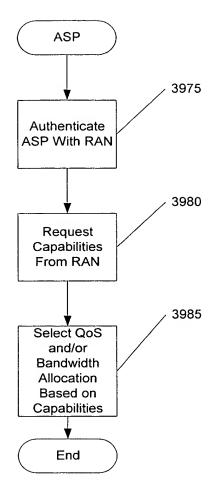


Figure 36